

#6

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/533,365
Source: PG/10
Date Processed by STIC: 5/19/05

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005
TIME: 10:51:48

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

4 <110> APPLICANT: Reynisdottir, Inga
5 Gulcher, Jeffrey R.
6 Grant, Struan F.
7 Thorleifsson, Gudmar
9 <120> TITLE OF INVENTION: Human Type II Diabetes Gene - Slit-3
10 Located on Chromosome 5q35
13 <130> FILE REFERENCE: 2345.2046-007
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/533,365
C--> 16 <141> CURRENT FILING DATE: 2005-04-29
18 <150> PRIOR APPLICATION NUMBER: PCT/US03/34801
19 <151> PRIOR FILING DATE: 2003-10-31
21 <150> PRIOR APPLICATION NUMBER: 60/423,541
22 <151> PRIOR FILING DATE: 2002-11-01
24 <160> NUMBER OF SEQ ID NOS: 236
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 634888
30 <212> TYPE: DNA
31 <213> ORGANISM: homo sapiens
33 <400> SEQUENCE: 1
34 gctcccccagc ccagccccaa gccggacctc cccgggcgcc acgccccatt gcgcgtcgccc 60
35 caggtccccca acccgccccg cggggccagcg gggccagggg gcgcgtccgca cctggggcact 120
36 cccagcgtat cgccagccccg cagccggcggc cccggccgtat gagctgtgt tgctggcc 180
37 gccggccgcc ggagcccccc gctccggcccg cggccgggtgc gcctgagcac cgagctcgcc 240
38 cctcctccgc gctaactccg cccggccgtc cccaggccgc cccgcgtccc cccgcgcctc 300
39 ctcgggctcc acgcgtcttgc cccggccagag gcaggccctt ccaggagccgg ggcctgtcac 360
40 accatggccc cccgggtggc aggggtcgcc gccggccgtgc gcgcggccct ggcgtggcc 420
41 ttggcgctgg cgagcgcttgc gagttggccct ccaggccgtgc cctggcccaac caagtgtacc 480
42 tgctccgctgg ccagcggttgc ctggccacggg ctggcccttc gcgcgggttcc tcggggcattc 540
43 ccccgcaacg ctgagccgttgc gtgagtaccc ctggcccaacc ccacgcgggc caccacatc 600
44 ggtcccaccc agggggcccccc aggcggccaga tccgtccctt cccctcgggcc tccctggatg 660
45 cagtctctat tctcatccct tcctggatac gatccctcac tctccgtat gggggctgt 720
46 aggtttggtc agatctggaa agagagggtct cggaaacccccc agcgatggc aaagagcagt 780
47 gcctctccag ggggtgggggt tccagacgc gggccggctg acagttcca aggagtagct 840
48 gaggagaggc gaggggaggc aagagcactg cagccctcaag gtcttaggtt gagggtcagg 900
49 ggtctcgct cgttaaaaag gggggccggc gaaggagaaa gctataggat gatggggccgt 960
50 caaggccgcgg aggcgggaga gaggggccga gactgttgc ctgcttggag atcagaatgg 1020
51 gccagccgcgt ctctggctgc ctttgcagg aaagttgaga gtgtgggtga aggttaact 1080
52 tctgaggaac tggacagatt cagagtgggt gctcgaaaa cccgctctgc ctggagcgc 1140
53 gcttggaga tgccaagtttgc cagcccccgg tgaattttt atggctcggt tataaatgcc 1200
54 tcccccgaacg aaggggccgg agaatggaaa tgctgacagc ctttcaatg agaccgagcg 1260
55 ttataatctt acaaaccgc a ctcagccatca gatccctggc ttggcagcga atggagaggc 1320
56 gcttggagaa tgggggtggat tgacccttagt ttttagccccaa attgtgcaac caaatattta 1380

P.6

RAW SEQUENCE LISTING

DATE: 05/19/2005
TIME: 10:51:48

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

57 ctttcatat gtcaacgttt tggaaacatt tatcattttg atcctcggac cagattcaaa 1440
58 acttggactc cgggggtggc tcctcttagt ccgcagttgg ggtggggtaa gggagtgggg 1500
59 gagaaacgtc ggagtgggtg ggaagcctta ctggaaaccc agccgagaag tgggtgaggg 1560
60 tttgtcttag tgggttagat tcctccgtg tttgtcttc ccttcttcc ctttctcat 1620
61 gtgccttagg ggtaggcgcc tggatcttc actctgctt ctgacttca ggcttggaaaga 1680
62 gagtagtgtat gacaagcatt gtcttagagt gtgttattcc tgcttagtcac ctccatcac 1740
63 cccacctctt cttctcttcc acttcttgcgat gcatctctgg gtggagactc agcagaactg 1800
64 tcttccttat tcctgggtgct ctcttttcc tttggctcag tactttttg ttttccaca 1860
65 agtgcagtga ttgtttgtt gggttgaacc acagaatcct aaagggttag agccaatct 1920
66 ttatataacac atgtcgaaaa ccaggcttgg aagtgtaaaa tgacttgccc aagaaaacac 1980
67 agcaagttga cggcaataaaa ggggctagaa tccaggttt cacaccttaa ttcagacatt 2040
68 aagtttagtcc ataggagtga aaaacttggtt ttaggttat ttttagatac ctataacttg 2100
69 taaactaagt tccccttcgtcacaccag tgcttagccac ataggttagt gaaataataa 2160
70 ttatagctaa tggttgcataa atgctttca tgcttgatt tggatgtatatg tattatctca 2220
71 ttgaatactt ccaacagtcc tggtagttac ataggcaatg cttattactc ctttcacag 2280
72 ttaagccatc ttgtcatttca ctaaggctcg tgcttagttagt gaaatgttttgc 2340
73 tgactggttc ctaagccac aaccgttatac actctccttgg tcatccttgg aacaagggtc 2400
74 agtttggcc acgatctata aacagacagt cttggaggg ttctggctgg gcttggatct 2460
75 tagaataggc tgctgttgct tctgcttcgt gtataccctg caaatgttca gctcactttg 2520
76 atgttagtgc tgctgttggttggctcgaa ctacatcttc cgcacatctca aaatctgtct 2580
77 ccatgtttgg gaaaccaaga agagtaagtccctcttcc tgggtgttagt gaaatgtttcc 2640
78 agagctgcag gaaccgcacc catgccagca tgccaccggag tcatcttcct tagggatct 2700
79 gtgcagctca gggcaaccca tcagctctag aactggagaa acaggacaga gactggagtc 2760
80 ctggtcatttccagaggccc cctgctgcag tcgttaatag gcaatggcag agcaggagct 2820
81 tctttgtgt ctctggctc ttctgcctca gttgtgtca ctgggtccac tttggccagg 2880
82 gtgcattgggg gtcgcgcgtt ggtatctcat tctagttcc ttcctccctg ggaatgggggg 2940
83 acagtctgtt gggcaagctt ggttcagggtt cactgcagggtt ttcaggggca acccaccac 3000
84 agtccttcac caccataatgc ctgcaccaca ctctctctca gccaactcaa atgttaacatt 3060
85 tcaattctgtt aaactcttgg gggatatttgc gcatcttac tctctgccttggggatct 3120
86 agaggaatca ctcatatttccatcttca ttcatcttcaac aaacattact tgaagccggg 3180
87 cgcagtggctt catgcctgtt atcccagcac tttggggaggc tgaggtgaga ggatcgctt 3240
88 agccttaggat ttggagaaca aacatgactt gaaaccttac tgcattccag aaactgtata 3300
89 tagaaaccatt gcaaatatcag aagaaaacca gcaatcttcaat gtaaaaatgt taaagaaaag 3360
90 atagaaggaa acttgcttttgc gtaggcctt tgaacttccc agggttcatg ttgcattggg 3420
91 gcacgttttgc ttagcactgtt catcagatgc tcaggacattt cttttttccatc agtttctga 3480
92 tctcaaaggat tttaatttgc tttaaaaacca aagaaaacttgc attttctccatc ttctccattc 3540
93 ttggtaacttgc ctctcccttca aaggcttgc tgaaggatt tggatgtgtg tggatgtgtg 3600
94 tatattgttgc ctctggatgtt ttttgacttc tggaaaccttgc tggatgtgaca ttaaggaaaa 3660
95 cctgagttgg gataatgtgc tcaccatttgc gactttgc tggatgtgtgatggggccctc 3720
96 aattgttcat aattaagccat aatcacttgc gatcacttgc tggatgtgtgatggggccctc 3780
97 taatgtcaga acatcacgcata gaaaagaaaatgc tggatgtgtgatggggccctc 3840
98 tcccccttca tgggggggttgc acacccacaa gaaagctaaa taaatgcaga gaaatgttca 3900
99 gtgttaatttgc ttatccgtgc agcaagata gaggacgaga ggagagggatg tggatggccgg 3960
100 tgcctgaaac caaacatttca ccatggagca cagatgttgc cttacccttc 4020
101 tgactacaaa aggagccac agatgttgc tggatgtgtgatggggccctc 4080
102 agaggaggca gatgaaaatgc aactcttcata cggggccact tggatgtgtgatggggccctc 4140
103 tggatgtgttgc cggcagaggcccacttgc actgcgttgc gggatgtgtgatggggccctc 4200
104 gtggggccaa ggtggacat tggatgtgtgatggggccctc 4260
105 ctgtattttaa ataaacatttca cctgttttgcq aaggaaqaaacq qqqqaaaqqc tggatgtgtgatggggccctc 4320

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005
TIME: 10:51:48

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

```

106 gaatgtggta acttaatttt ctccatcaact ccaaatgacg gctagcttg ccggtggttg 4380
107 ggcccaataaa aaactgacac catgtcatag gcttccctc acttgaccac agaggtcctg 4440
108 aggtcaagtg agagactttc caagatgctc aacagccaag tcctctgtcc agccctcagg 4500
109 gccagcttag aggacaggaa caagctagt aatcatgggg tctctctggg tcaaccacgg 4560
110 ttagtggcc ttttagggaa acacagtgc ctcctggaca gactaaggag cagctgagtg 4620
111 gaccgcctc cagtggaccg gtatagcctc catggtgctg tgcaactctg aacggattac 4680
112 attacctctc tgggcctcat tttcatggaa gtagaattct tgtatagtct tagtgggttt 4740
113 ctttagtgggtt atagtccact gggggactg taagtatccg cttccctagt gtctagaaca 4800
114 gtgcctggca cacagtaggt gttcagcaga tgtgtattta ataaaggaat aatgaacctc 4860
115 aaaactacaa gtctgtctt agttcttaaa agtggaaatg gggccattat agatctgcat 4920
116 tctggcatat gactaaggaa tcctcaactg taacctatga catgagttat taagggtatc 4980
117 taaaatttgg atttatgaa ctaatattta ttgccttact agagttacca aggactcctg 5040
118 ttgagtgatc tactctggag tctgggttgc aggattgct tagcaacctt gcaaaactcc 5100
119 tactgtgcac atgcccatttga aaagaactgg aaatccctgag cacttaaacc acagggcttt 5160
120 ctaatcagga actcatcagc gtcattcctga gtgtctgtg ggttttattt gctgctcttc 5220
121 ttgttattat tgataagttc tgcttttgc gatcatctgg attttctattt atttctgcat 5280
122 ttttgcctt ttgattgtta tgttgtttc tctccagttt tgtttgcgtt cacagagttc 5340
123 tgtctcacct ggaaagttagt aatgaacagt gggttgcgc tgtagaacctt cttgccttgg 5400
124 caatgtgggc tatggcaaga aggttcccgaa cccctaagca tcgtggtag ggcaggcgct 5460
125 ccggagacac acgactgtgg gtttgaattt cagctctgtt acatcttgct gttgcactgt 5520
126 gggcatgtta cactattgtt gtggactgca gtgtgttaaa ttcttttagta ctttatttcc 5580
127 acacctgtga taccaggatg atgagcgcac ggtttcatg gggatgtgtt gaatgttagcc 5640
128 tgaggcagtc cctgtatgtt gtcagcactg gtgccttaccat tggtttcac tcattgtgt 5700
129 gattgtttat ccctctatga tttcttaact gtaaaaatatg tatgtatgactt ctaccccccatt 5760
130 ggggggattt aacaaaataaa tatacaggaa agtgcattttt acagtagt catgttttac 5820
131 ctaaaatgac attctggtaa acagtggaca acatagagga cgggttctc ataaggtaa 5880
132 aatggagctg aagaatttccatc atgccttagt gacatcgtag cttttgtat gtcatagtgc 5940
133 catcaattttt ttttaataaa atttagtaca gcctaaagggt atagtgttga caaaatctac 6000
134 agtagtgcac agtaatgtcc taggccttca catttactca gcactcaactc actgactcac 6060
135 ccagagcaac ttccagtcct gtaagcttta ttccctggtaa atgcccctgtc cagatgtacc 6120
136 attttttattt tttcatacca tactttgtt gttacctttt tttgtatagg tatgttgaga 6180
137 aacacacata cttatgattt tgtcacagt gcttacggta ttctgttagag gaacatgcta 6240
138 tgcagggtt gagcttagga gcaataggct atcacatcta gcctagacgt atagtaggct 6300
139 agaccatctg ggctcgtgtg agtgcactt atgagggttgc cacaatgacg aaatcgcccta 6360
140 atggtgagtt tcttagaacg tatccccatc attaagtgtat gcatgacccc accataggag 6420
141 ccctccctga actattcatg ttatggccca tggcttattt ctttatatct tcatttcagg 6480
142 ccctatccag ctggaaagggtt tgagacgccc atccattttt tgctccaacc cagagccctg 6540
143 tggaagcgcac ttccctgcct gctgtgggc tatgcccattt accctcttgg ctagggccct 6600
144 cttttctct ctctgtctt ggtcctggcc ccacagcaga gcccagggtt gcttctgttc 6660
145 cataaaaaagg gaattgtggt gaaagtgggtt tataatctttt ccatgggtgt gttgtttgt 6720
146 ggtatattttt aataaggaat gcatattttt tattttttt tgggggttgg gttttcatgg 6780
147 ggaatttttgc gcccctgactt tttttttttt ttcaatgtt cattcccttctt atttttccctt 6840
148 aaataacctcc tttactgac ttcccatgtc tgccttattt actgtgttta cttgaaacag 6900
149 ctgtatattcc tagcaggctc cacccttattt atgtaagggtt gctttaaccctt tttttaggac 6960
150 tgctgaaaag aaaggaaaaaa caagggttgg aggcattttcc agagagctca tctggaccac 7020
151 tgctgatcac aagcttagatg gctgttagagg gtgccttgc actgtgtca gctcccccgtg 7080
152 ctctccgttc ttcatgttcc tccatccttgc aattcaatc agccttgcac aggtggatg 7140
153 ctcatgttgg gaatcctcta cctctctgtt ctgcaggcct ggacgggtat ctgtaaactac 7200
154 tgtactgct ggctgttcaaa gaggcttacc ttcttcccc actcactgtg gtcttcatag 7260

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005
TIME: 10:51:48

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

155 ttgtgttgtc agtaccatgt ttgatacagt gaaaccctgg aaaaaaattg gccaaagcgt 7320
 156 gcatgatttag agccttctgt actgcgtgga cagagaagat agggaaatgt ggcactagag 7380
 157 ccagactctg gggcccaaag cccggttctg tcacctacta gctggatggg cctcagttt 7440
 158 cccatttgc aaatgggaat aataataata ctcccttcaa aggatgtgtt attaatccac 7500
 159 ataggctgcc tggAACCAAG ggcaccctcc atcaatattc ctattgttat tatggtaaa 7560
 160 agtcttactg agttagacc tcctatcaga gcatgatcag gatgaagctt cattaagaaa 7620
 161 aatacagatc gtcagcgtt gaaagggtcc atttgcctt gttccacca cacgaagggtt 7680
 162 ggtctccat cagcatgatt taggggaagg tggcgttta gcctccttgc cttgtatgata 7740
 163 tctagtgtt agggagcttgc ttcttcctt acaattttt tccattaaaa aaaccacaat 7800
 164 cctaataaga aatgttctt tgggtgggaa ttggactt ctctcatttgc ttgtgttaac 7860
 165 ccagagcatg tataatctt tttccaaatg acaggtttc aaaagtcttta ttgtgtgtt 7920
 166 gtttctcacc acccatttac cggagtctcc ttaattgcctt caactattctt gtatgtggta 7980
 167 cagtttgggc ataggcctcg tactccatcc atagttctt tcctctaaat aggttccaaat 8040
 168 cttcttgac tgtatttagtt agaaggagac cttccatggc ttcactgttt tatttgactt 8100
 169 ctatcagcca ggcgcatttca aagaaccttt tcactttggc cagccacagc cctggtagg 8160
 170 ctcattttga ccaagctgcc tgacatcccc atatctcccc agtctccctt gctgttagct 8220
 171 tgggtcccc tcttcttagac ttgtgcgtt gactttttgg agtctaaatg caacactttg 8280
 172 catttaccc tattttatctt tggcaaaatca tttcatttca tcagcttttgc aggagcattt 8340
 173 tctatttgc tttccatc tagcaattaa ctactcctt cccatctcc cactattttat 8400
 174 ttcctctgc aatttatga gcttgcctt tggatctt tccaaatgtt caatataatc 8460
 175 agcagagttc tctgtgcatt ttttcaaaa tctttctaca atctggcatg tggattacat 8520
 176 aatataatgg ccccggttctt tccggctggg atggaaaaaa atgttggaggt cttcttggt 8580
 177 tggtagcatct tctttccctg ggggtctgtt gggtcatatt ttctctggaa taatttccta 8640
 178 ttaatgttta atttttcagc ttgtctaaatt ttctctatac tcttgggttc tcatggaaact 8700
 179 ttccataatg acttttagctt catttttgc ctattaggctt agtaccacaa gtctcaccaa 8760
 180 cacaggatgac gacgcatttgc ttgtgtgtt tggatgtt gtatgtat tgggttatt 8820
 181 ctctccctgg aaaaagttca gcttgcgggaa ttgagcctt ctggcactt cagagctcag 8880
 182 gtagcttcag gtttttaaac acagtgtttt cccttagcat tttgggtaca cattggcatc 8940
 183 gggcacattt tctggagtag ttctggaaac agacatgtt aagaatgaag catagggac 9000
 184 caggccttac agggccccca agcctctgtt aacgacaaca acaaccatca ccacaacaat 9060
 185 agctggcattt tatttgcctt ttctttgtgc ctggcacttgc tcttacactt tacatgcgtt 9120
 186 gagtcatttc ctatttgc tttttttttt tttttttttt tttttttttt tttttttttt 9180
 187 gtggcaacta cgtcagagag gtggaaataac atccccatgtt aggaacagga gaggcagggt 9240
 188 tcatccagcc aggctggctc cagaggcttc acttcaactt ccagtcattt catcccttcc 9300
 189 agaatcttc aagtccatc cttttctgtt cttctaaactt ctattctcaaa gtaacaacta 9360
 190 gaagaagaca aacatgttgc gttcaactt aatcaaagag cccctgttgc aggcaaaagca 9420
 191 tcaagaagaa tgtcaatgtt gtgtatgttgc cacctggatgtt aacagagcca tcatgtccaa 9480
 192 tttggggaaa taggtggcctt ttgtatttggc gctgttgcgtt taatggatc cctgtgcgtt 9540
 193 gaaatggggaa cgtggatcag tcacagaaat tcatgttgc gatgttgc gccaactt 9600
 194 aatgtatggg agctgcattt tggaaatgtt tatctcatgg ggtttagt aacagaatcc 9660
 195 aatctttagg aatataatctt catggatgtt gtccacttac tttttttttt atttctggtt 9720
 196 tgaggggata caccctccaa gagtagttt gatgttgc gctgttgc tttttttttt 9780
 197 tcaagcatct actccaaatgtt cggcaggatgtt catcttcctt tggcgttgc tggcaccactt 9840
 198 gctttcttcc agccggatc tctggctcc tccacccctg gcatcagggtt ttgttccaaac 9900
 199 aggtatgtaca taagatgttgc gtcgttgcgtt actgcactt tcacggccat 9960
 200 atcactgtt gttggcgttcc agactccctt tctttgttcc taactgcctt tctgggttcc 10020
 201 gaccctgtat tcattccca ctttggcactt agtgttgc gttggcttgc aaagtctgc 10080
 202 agcacactt accaccacc tttgttgcactt cttgggtttt tctaccttc tagtctctgt 10140
 203 ctgttaccag tcataatccat tctttgcctt agcacgttgc ctgtgttattt cccttagtgc 10200

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005
TIME: 10:51:48

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

204 caccctagcg tatgccctag catgtgccct agcgtgtgcc ctagtgggtg ccatagcatg 10260
 205 tgccccagtg tatgccctag cgtgtgccct agtgggtgcc atagcatgtg ccccaagtgt 10320
 206 tgccctagtg tgccttag cgtgtgccct agcatatgcc ctagtgcgtg ccctagtg 10380
 207 tgccccagca tgccttag cgtatgccct agtgcgtgcc ctagcatttgc ccttagcata 10440
 208 tgccccgcac gtgccttagt atatgcccta gtgtatgtcc tagcatgtgc cctagtgcgc 10500
 209 accctagtgt gtgccttagc gtatgcccta gtatgcgcc tagtataatgc cctagcgc 10560
 210 gcaactgtgc gtgccttagt atgtacccca gtgtatgtcc tagcgtgtgc cctagcatgt 10620
 211 gcccctagtc gcaacctagt gtgtgccccca gtgtatgcgcc tagtgcgtgc cctagtat 10680
 212 gcccctagct gtgccttagc acatgtacta gtgcgtgcgcc tagcatatgc ccccaagtgt 10740
 213 gcccctagct gtgccttagc atgtgccctg gtgcgcgcgcc tagcgtgtgc cctagcatat 10800
 214 gcccctaataat gtgtccccagc atgtgcccta gcatgtgcgcc tagtgcgcac cctagcgtgt 10860
 215 gcccctagcat atgtccctagt gcacaccctt gcatatgcgcc tagcatgtgc cctagcatat 10920
 216 ttccctagtgt gtgccttggc gtatgcccta gtgcatcccc gagtgcgtgc cctggcgat 10980
 217 gcccctagct acgttctagc atatgtcccta gtgtgtgcgcc tggcgtatgc cctaataatgtac 11040
 218 gttctagcat attccctagt gtgtgccccca gtgtatgcgcc tagtgcgtgc cctagcatat 11100
 219 tccctagtgt gtgccttagc gtatgccctg gtgtatgtcc tagcatatgc cctagtat 11160
 220 gcccctagcat atgccttagt gtgtgccccca gtgaatgcgcc taactcaggat atgtctgc 11220
 221 gctgtggagt ccatgatcct cttctaaatcg gagttttatg acttgaccat agaattgtgc 11280
 222 atgtttgcatt ctctccctga gcttttagcta ctccctggctc ctgccttaat ccttcttagt 11340
 223 tggcttcttgc ccctctactg ccctctatgt attctccata gccttagtat tgaatttgg 11400
 224 ctgtcaccat cagaacccca ggtcctgaaa ttggatttca tggcctggac cttcactgg 11460
 225 gactgcagac ttgcaagaac tcagagtttgc gcccgtggaaa caacctcaga cttcgtctt 11520
 226 atggccatct gaaatctttt atcatgtccca gggtagcatg taaaagtgc ccaagggtcg 11580
 227 actctataaaa tgatgaatta ctttagacata ctccctgaact ccctgtatcc caaataggac 11640
 228 agatcattttt gtaattaaaaa agcgcagcag tgatgtatc attggagagc tgcctgttc 11700
 229 aataatgtgt tgcagaaatt tctggactat ctgtacttt gtcgacatc tttctctt 11760
 230 cttcttctct ctccagctct agaatgttagg tagaaaagtgt tctgagttatg gggattctaa 11820
 231 gtggaaattag tgagaagcca agggggagta caatttggat gtaagccgaa atgagtagaa 11880
 232 agacctaggc tgaatccctgg cttctgtcac tttctaaatgc cccgacatgt ctgagttac 11940
 233 ttgcggcttc catagtctca tctataacctt ttggaaatggg agaaataaca ctcatctc 12000
 234 ggggctgatg caagggtttaa atgagatcag atgtctccaa atgccttcta aatttagtgc 12060
 235 tatgcgaata ccttaatgag tccacccaca atatctgaat tgaaccacta aatccctgtat 12120
 236 ctggaaagacg atcagggtat attttagaaat ctttcattta cagatgaaga aactcaggga 12180
 237 gtcctaaagc cttgctcaga gtcacccatg tcttcaaact cttgttccag tttcttttc 12240
 238 atttaacaag atgcattttt tacaattaa aatataacctt cataccagcc atgtcagc 12300
 239 cttaccagg tggagtttag aggactgggt aattaataag tgacagtgtc caagacagta 12360
 240 ggaccaaata agggaaatcca tgaaggatgg agtcatatgg agggggcatt tattgagtt 12420
 241 ctaccacaat gaataaagca agtgaatgt tctggtaact agaacatgtc aaactaactt 12480
 242 caaagtttagt ctggactgtc tctccctcta aatgactgac aaggccaaagg ctaccatgt 12540
 243 aggttcagag cagggagatt tatgggttgg gagaaaatgtc agaaccatga aggtatgtc 12600
 244 accaaacctt caggaatcat tgatgaaagc aagccccctc atcccttta gtgggtacaa 12660
 245 atatgttagaa agcctcccac atcataaaaaa aatagtacaa gtggaaattaa aaaaaaactc 12720
 246 aagggggaaa tattaatctg agaacaatttgc tatctgagaa agcatcaag tatgcctctg 12780
 247 cagctagctg gcaaacagca caagttctgc attttattag agttctaact ctggttagaa 12840
 248 cactgacctt atttgagaag catttcataa acactgacac acagcacagc agcatttgag 12900
 249 gccatgagga gatacagggc ctcttttagg gggccagctt cccttccct cctcggctgc 12960
 250 aagggacccc taggacatttgc ttccctgttagt tggtatatac ttattttc tcttttaggt 13020
 251 ttaactcagc aggaggaatttcccttagggg aaaatgaggg agggggattt ggaataaaaat 13080
 252 ttgtactttg ggcaagtttgc cctaagcatg gggtaggcga tgggaaagac cctgctctgg 13140

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005
TIME: 10:51:49

Input Set : D:\Seqlist.txt
Output Set: N:\CRF4\05182005\J533365.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 88,164
Seq#:18; N Pos. 33,36,72,281,311
Seq#:23; N Pos. 124,175,320
Seq#:25; N Pos. 24,97,104,274
Seq#:33; N Pos. 4,55,133,189,227,228,252,259,263
Seq#:58; N Pos. 49,53,57,259,322
Seq#:81; N Pos. 18,197
Seq#:85; N Pos. 7,61,86,339
Seq#:179; N Pos. 560,561,563
Seq#:180; N Pos. 560,561,563
Seq#:181; N Pos. 560,561,563
Seq#:206; N Pos. 58,203,254
Seq#:207; N Pos. 33,36,72,281,311
Seq#:208; N Pos. 97,267,274,347

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/533,365

DATE: 05/19/2005

TIME: 10:51:49

Input Set : D:\Seqlist.txt

Output Set: N:\CRF4\05182005\J533365.raw

L:15 M:270 C: Current Application Number differs, Replaced Application Number
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:10639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
M:341 Repeated in SeqNo=3
L:10823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:10889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:120
M:341 Repeated in SeqNo=23
L:10920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
M:341 Repeated in SeqNo=25
L:11024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
M:341 Repeated in SeqNo=33
L:11339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
M:341 Repeated in SeqNo=58
L:11630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
M:341 Repeated in SeqNo=81
L:11682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0
M:341 Repeated in SeqNo=85
L:13229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:540
L:13252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:540
L:13275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:540
L:13873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:0
M:341 Repeated in SeqNo=206
L:13892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207 after pos.:0
M:341 Repeated in SeqNo=207
L:13912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:60
M:341 Repeated in SeqNo=208